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Accession number & update
 1754788, C81033818; 810000.
Title
 Interactive graphics for volume modeling.
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Abstract

 Describes the graphic input subsystem (GRIN) of an experimental volume modeling system called the geometric design processor (GDP) developed at the IBM Thomas J. Watson Research Center. Sitting at an interactive graphic workstations, a mechanical designer generates computer volume models of complex physical objects and mechanisms built up from primitive volumes, e.g., cuboids, cylinders, swept surfaces, etc., entered at any orientation in 3-dimensional space. Objects are represented in the model as polyhedral approximations. The central issue is the provision of an efficient, natural means for a mechanical designer to enter and interact with these models. (12 refs).

Descriptors
 CAD; computer-graphics.
Keywords
 volume modeling; graphic input subsystem; geometric design processor; interactive graphic workstations; mechanical designer; computer volume models; cuboids; cylinders; swept surfaces; polyhedral approximations; **CAD.**
Classification codes

- C6130B (Graphics techniques).
  C7440 (Civil and mechanical engineering).

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